

PRODUCT CATALOG



SCANNING UV VISIBLE SPECTROPHOTOMETER





SCANNING UV VISIBLE SPECTROPHOTOMETER BFU1N1 TO BFU1N5

SCANNING SPECTROPHOTOMETER



- 1. Unique optical system, 1200 lines/mm grating and imported receiver to ensure its sound performance.
- 2. The instrument has basic functions of photometric analysis and quantitative analysis. With PC software, it expands the
- applications, such as spectral scanning, kinetics, DNA/protein analysis, multi-wavelength test, etc.
- 3. Adopts 51 microcomputer systems, and can store 200 test data and 100 standard curves.
- 4. Socket type deuterium and tungsten lamps can make lamps switching without optics debugging and are easy to be replaced.
- 5. A large sample chamber can accommodate 5-100mm cuvettes of all kinds.
- 6. Extensive accessories are optional, such as 50/100mm manual 4-cell holder, au

SPECIFICATIONS

Model	BFU1N1	Bí	FU1N2	BFU1N3
Optical System	Single Beam, Grating 1200 lines/mm			
Wavelength Range	190-1100nm	191-	-1100nm	192-1100nm
Spectral Bandwidth	2 nm		3 nm	4 nm
Wavelength Accuracy	±0.3 nm	<u>±</u> (0.5 nm	1 nm
Wavelength Repeatability	<=0.1 nm <=0.2 nm			
Photometric Accuracy	0.3%T	C).5%T	
Photometric Repeatability	0.2%T			
Photometric Range	0-200%T, -0.3~3A, 0-9999C	1-200%T, -0).3~3A, 0-9999C	2-200%T, -0.3~3A, 0-9999C
Stray light	0.05%T	С).1%T	0.15%T
Stability	±0.0001A/h @500nm ±0.0002A/h @500nm			h @500nm
Baseline Flatness	±0.002 A			
Noise	±0.001 A			
Work Mode	T, A, C, E			
Wavelength Setting	Auto			
Display	128*64 LCD	129	*64 LCD	130*64 LCD
Light Source	Imported Deuterium & Tungsten Iamp			
Detector	Imported Silicon Photodiode			
Cuvette Holder	10mm manual 4-cell holder	11mm man	ual 4-cell holder	12mm manual 4-cell holder
Output	USB, RS232	USE	3, RS233	USB, RS234
Power	AC 110-220V 50-60Hz			
Shipping Size	700*580*340mm	701*580*340mm		702*580*340mm
Gross Weight	20kg	21kg		22kg
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x 2 (UV), Power cord, User's Manual, PC software (UV)			
Alt Name	Scanning Spectrophotometer			
Model	BFU1N4		BFU1N5	
Optical System	Single Beam, Grating 1200 lines/mm			

Wavelength Range	320-1100nm	340-1050nm	
Spectral Bandwidth		4 nm	
Wavelength Accuracy	±0.5 nm	1 nm	
Wavelength Repeatability	<=0.1 nm	<=0.2 nm	
Photometric Accuracy	0.3%T	0.5%T	
Photometric Repeatability	0.2%T		
Photometric Range	0-200%T, -0.3~3A, 0-9999C		
Stray light	0.05%T	0.15%T	
Stability	±0.0001A/h @500nm	±0.0002A/h @500nm	
Baseline Flatness	±0.002 A		
Noise	±0.001 A		
Work Mode	T, A, C, E		
Wavelength Setting	T, A, C, E		
Display	130*64 LCD		
Light Source	Imported Tungsten lamp		
Detector	Imported Silicon Photodiode		
Cuvette Holder	10mm manual 4-cell holder		
Output	USB, RS232		
Power	AC 110-220V 50-60Hz		
Shipping Size	700*580*340mm		
Gross Weight	20kg		
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x 2 (UV), Power cord, User's Manual, PC software (UV)		
Alt Name	Scanning Spectrophotometer		

FEATURES

- 1. Unique optical system, 1200 lines/mm grating and imported receiver to ensure its sound performance.
- 2. The instrument has basic functions of photometric analysis and quantitative analysis. With PC software, it expands the applications, such as spectral scanning, kinetics, DNA/protein analysis, multi-wavelength test, etc.
- 3. Adopts 51 microcomputer systems, and can store 200 test data and 100 standard curves.
- 4. Socket type deuterium and tungsten lamps can make lamps switching without optics debugging and are easy to be replaced.
- 5. A large sample chamber can accommodate 5-100mm cuvettes of all kinds.
- 6. Extensive accessories are optional, such as 50/100mm manual 4-cell holder, auto 8-cell holder, film holder, 21 CFR compliant software, etc.

SCANNING UV VISIBLE SPECTROPHOTOMETER BHV1D1 TO

BHV1D9

SPECTROPHOTOMETER

It is an advanced single beam design consisting of 9 models. They differ in bandwidth and wavelength accuracy, but provide excellent performance for measurements.

They are suitable for clinical, pharmaceutical, and bio-chemical lab applications, as well as routine applications such as quantitative analysis, kinetics, Wavelength Scan, Multi-Wavelength, and DNA/Protein analysis. The memory is 32K.

UV-Vis Analyst software Based Microsoft Windows makes these instruments versatile. All instruments provide excellent performance for measurements.

They are divided into two types: PC models and stand-alone models.

In Stand-alone models, all software methods are included as built-in standard; this eliminates the need of software. Online software update via the internet.

Data can be downloaded.

The PC models come standard with Windows based application software UV-Vis Analyst.



Fixed or variable slits (Bandwidths).

Sealed, solvent-resistant tactile keypad with alpha-numeric entry for file names and units

Pre-aligned deuterium lamp for easy lamp replacement. The status of the lamps may be monitored.

Powerful built-in program or PC Windows based software UV-Vis Analyst including sophisticated utility programs.

Data Download-to-PC software for stand-alone models (Optional).

Real-time clock for date and time stamping of results.

Data can be saved by a USB memory device directly.

Brief Introduction:

All methods are included as built-in standard; this eliminates the need for soft

SPECIFICATIONS

Model	BHV1D1	BHV1D2	BHV1D3	
Old Model		BSSCU-101	BSSCU-102	
Wavelength Range	320-1100 nm	320-1100 nm 190-1100 nm		
Spectral Bandwidth	4 nm 2 nm		2 nm	
Optical System	Single Beam, Grating 1200 lines/mm		00 lines/mm	
Wavelength Accuracy	±0.5 nm			
Wavelength Repeatability	0.3 nm			
Scan Speed		Hi, MED., LOW., MAX. 3000 nm/min		
Photometric Accuracy	±0.5 %T or ±0.004A @1A ±0.3 %T or ±0.003 @1.		±0.3 %T or ±0.003 @1A	
Photometric Range		0-200%T, -0.3-3A, 0-9999 Conc		
Stray Light	0.05%T @220 nm, 340 nm			
Stability	0.0008 A/h @500 nm			
Display	5 inches LCD (320x240 dots)			
Baseline Flatness	±0.002 A			
Standard Cell Holder	Standard 10 mm pathlength cuvette			
Light Source	Tungsten lamp			
USB Type A Port	USB Type A for USB memory device (Right side)			
USB Type B Port	USB Type B for optional computer connectivity (Back)			
Output Parallel Port	Parallel port for printer			
Power Requirement	AC 110/220 V, 50/60 Hz			
Dimensions (LxWxH)	491x365x180 mm			
Weight	14 kg			
Alt Name	Scanning Spectrophotometer			

Model	BHV1D4	BHV1D5	BHV1D6	
Old Model		BSSNU-101	BSSNU-102	
Wavelength Range	320-1100 nm	1	90-1100 nm	
Spectral Bandwidth	4 nm 2 nm			
Optical System	Single Beam, Grating 1200 lines/mm			
Wavelength Accuracy	±0.5 nm			
Wavelength Repeatability	0.3 nm			
Scan Speed	Hi, MED., LOW., MAX. 3000 nm/min			
Photometric Accuracy	±0.5 %T or ±0.004A @1A ±0.3 %T or ±0.003 @1A			
Photometric Range	0-200%T, -0.3-3A, 0-9999 Conc			
Stray Light	0.05%T @220 nm, 340 nm			
Stability	0.0008 A/h @500 nm			
Display	5 inches LCD (320x240 dots)			
Baseline Flatness	±0.002 A			
Standard Cell Holder	Standard 10 mm pathlength cuvette			
Light Source	Tungsten lamp			
USB Type A Port	USB Type A for USB memory device (Right side)			
USB Type B Port	USB Type B for optional computer connectivity (Back)			
Output Parallel Port	Parallel port for printer			
Power Requirement	AC 110/220 V, 50/60 Hz			
Dimensions (LxWxH)	491x365x180 mm			
Weight	14 kg			
Alt Name	Scanning Spectrophotometer			
ALLIAGING		Scariffing Spectrophot	onietei	
Model	BHV1D7	BHV1D8	BHV1D9	
	BHV1D7 BSSNU-103			
Model			BHV1D9	
Model Old Model		BHV1D8	BHV1D9 BSSNU-104	
Model Old Model Wavelength Range	BSSNU-103 1.8 nm	BHV1D8 190-1100 nm	BHV1D9 BSSNU-104	
Model Old Model Wavelength Range Spectral Bandwidth	BSSNU-103 1.8 nm	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm	BHV1D9 BSSNU-104	
Model Old Model Wavelength Range Spectral Bandwidth Optical System	BSSNU-103 1.8 nm	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120	BHV1D9 BSSNU-104	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy	BSSNU-103 1.8 nm Sin	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm	BHV1D9 BSSNU-104 1 nm 0 lines/mm	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability	BSSNU-103 1.8 nm Sin	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm	BHV1D9 BSSNU-104 1 nm 0 lines/mm	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed	BSSNU-103 1.8 nm Sin	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm , MED., LOW., MAX. 300	BHV1D9 BSSNU-104 1 nm 0 lines/mm 00 nm/min @1A	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy	BSSNU-103 1.8 nm Sin	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm , MED., LOW., MAX. 300 ±0.3 %T or ±0.003	BHV1D9 BSSNU-104 1 nm 0 lines/mm 00 nm/min @1A	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range	BSSNU-103 1.8 nm Sin	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm , MED., LOW., MAX. 300 ±0.3 %T or ±0.003	BHV1D9 BSSNU-104 1 nm 0 lines/mm 00 nm/min @1A 099 Conc 40 nm	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display	BSSNU-103 1.8 nm Sin	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm , MED., LOW., MAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24	BHV1D9 BSSNU-104 1 nm 0 lines/mm 00 nm/min @1A 099 Conc 40 nm nm	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display Baseline Flatness	BSSNU-103 1.8 nm Sin	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm , MED., LOW., MAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24 ±0.0015 A	BHV1D9 BSSNU-104 1 nm 0 lines/mm 00 nm/min @1A 999 Conc 40 nm nm 0 dots)	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display Baseline Flatness Standard Cell Holder	BSSNU-103 1.8 nm Sin	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm , MED., LOW., MAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24 ±0.0015 A	BHV1D9 BSSNU-104 1 nm 0 lines/mm 0 nm/min @1A 099 Conc 40 nm nm 0 dots)	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display Baseline Flatness Standard Cell Holder Light Source	BSSNU-103 1.8 nm Sin Hi	BHV1D8 190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm , MED., LOW., MAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24 ±0.0015 A andard 10 mm pathleng	BHV1D9 BSSNU-104 1 nm 0 lines/mm 0 nm/min @1A 999 Conc 40 nm nm 0 dots) gth cuvette (Pre-aligned)	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display Baseline Flatness Standard Cell Holder Light Source USB Type A Port	BSSNU-103 1.8 nm Sin Hi Comparison of the state of th	190-1100 nm 0.5/1/2/4/5 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm 1, MED., LOW., MAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24 ±0.0015 A andard 10 mm pathleng sten & Deuterium lamp e A for USB memory de	BHV1D9 BSSNU-104 1 nm 0 lines/mm 0 nm/min @1A 099 Conc 40 nm nm 0 dots) gth cuvette (Pre-aligned) evice (Right side)	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display Baseline Flatness Standard Cell Holder Light Source USB Type A Port USB Type B Port	BSSNU-103 1.8 nm Sin Hi Comparison of the state of th	190-1100 nm 0.5/1/2/4/5 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm 0.2 nm 0.4 mAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24 ±0.0015 A andard 10 mm pathleng sten & Deuterium lamp e A for USB memory de	BHV1D9 BSSNU-104 1 nm 0 lines/mm 0 nm/min @1A 999 Conc 40 nm nm 0 dots) gth cuvette (Pre-aligned) evice (Right side) connectivity (Back)	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display Baseline Flatness Standard Cell Holder Light Source USB Type A Port USB Type B Port Output Parallel Port	BSSNU-103 1.8 nm Sin Hi Comparison of the state of th	190-1100 nm 0.5/1/2/4/5 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm , MED., LOW., MAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24 ±0.0015 A andard 10 mm pathleng sten & Deuterium lamp e A for USB memory de	BHV1D9 BSSNU-104 1 nm 0 lines/mm 0 nm/min @1A 999 Conc 40 nm nm 0 dots) gth cuvette (Pre-aligned) evice (Right side) connectivity (Back) nter	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display Baseline Flatness Standard Cell Holder Light Source USB Type A Port USB Type B Port Output Parallel Port Power Requirement	BSSNU-103 1.8 nm Sin Hi Comparison of the state of th	190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm 1, MED., LOW., MAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24 ±0.0015 A andard 10 mm pathleng sten & Deuterium lamp e A for USB memory de for optional computer Parallel port for pri	BHV1D9 BSSNU-104 1 nm 0 lines/mm 0 nm/min @1A 099 Conc 40 nm nm 0 dots) gth cuvette (Pre-aligned) evice (Right side) connectivity (Back) inter 60 Hz	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display Baseline Flatness Standard Cell Holder Light Source USB Type A Port USB Type B Port Output Parallel Port Power Requirement Dimensions (LxWxH)	BSSNU-103 1.8 nm Sin Hi Comparison of the state of th	190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm , MED., LOW., MAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24 ±0.0015 A andard 10 mm pathleng sten & Deuterium lamp e A for USB memory de for optional computer Parallel port for pri AC 110/220 V, 50/6	BHV1D9 BSSNU-104 1 nm 0 lines/mm 0 nm/min @1A 099 Conc 40 nm nm 0 dots) gth cuvette (Pre-aligned) evice (Right side) connectivity (Back) inter 60 Hz	
Model Old Model Wavelength Range Spectral Bandwidth Optical System Wavelength Accuracy Wavelength Repeatability Scan Speed Photometric Accuracy Photometric Range Stray Light Stability Display Baseline Flatness Standard Cell Holder Light Source USB Type A Port USB Type B Port Output Parallel Port Power Requirement	BSSNU-103 1.8 nm Sin Hi Comparison of the state of th	190-1100 nm 0.5/1/2/4/5 nm gle Beam, Grating 120 ±0.3 nm 0.2 nm 1, MED., LOW., MAX. 300 ±0.3 %T or ±0.003 0-200%T, -0.3-3A, 0-99 0.05%T @220 nm, 34 0.0008 A/h @500 5 inches LCD (320x24 ±0.0015 A andard 10 mm pathleng sten & Deuterium lamp e A for USB memory de for optional computer Parallel port for pri	BHV1D9 BSSNU-104 1 nm 0 lines/mm 0 nm/min @1A 099 Conc 40 nm nm 0 dots) gth cuvette (Pre-aligned) evice (Right side) connectivity (Back) inter 50 Hz	

ACCESSORIES FOR PURCHASE

No	name
1	Micro Cell Holder (Beam height: 15mm)
2	8-Position Auto Cell Changer
3	4-Cell Holder for 10mm SQU.cuvette
4	4-Cell Holder for 50mm SQU.cuvette
5	4-Cell Holder for 100mm SQU.cuvette
6	Square Cuvettes Glass :10 mm
7	20 mm
8	30 mm
9	50 mm
10	100 mm
11	Square cuvettes Quartz:10 mm
12	20 mm
13	30 mm
14	50 mm
15	100 mm
16	Micro cell, Quartz (Beam height: 15mm) 100UL
17	200UL
18	500UL
19	Sipper System
20	Constant-Temperature System
21	Constant-Temperature Sipper System
22	Test Tube Holder
23	Cylindrical Cell Holder
24	Solid Sample Holder (Single Cell)
25	Water-Jacketed Cell Holder
26	10mm Water-Jacketed 4-Cell Holder
27	Milas Deuterium Lamp
28	Halogen Lamp(Philips)
29	Halogen Lamp(Philips)
30	Halogen Lamp(Osram)
31	Self Masking Cont. Flowthrough G.Cell (Beam height: 15mm) 5mm
32	10mm
33	20mm
34	30mm
35	Self Masking Cont. Flowthrough Q. Cell (Beam height: 15mm) 5mm
36	10mm
37	20mm
38	30mm



FEATURES

Fixed or variable slits (Bandwidths).

Sealed, solvent-resistant tactile keypad with alpha-numeric entry for file names and units.

Pre-aligned deuterium lamp for easy lamp replacement. The status of the lamps may be monitored.

Powerful built-in program or PC Windows based software UV-Vis Analyst including sophisticated utility programs.

Data Download-to-PC software for stand-alone models (Optional).

Real-time clock for date and time stamping of results.

Data can be saved by a USB memory device directly.

Brief Introduction:

All methods are included as built-in standard; this eliminates the need for software. Online software update via the internet. The local control software includes functions such as: Photometry, Quantitative, Wavelength Scan, Kinetics, DNA/Protein, Multiwavelength and System Utilities.



Standard Curve:

Up to 10 standard solutions may be used to establish a calibration equation curve. There is a choice of four methods for fitting a curve through the calibration points: Linear fit, Linear fit through zero, square fit and cubic fit.



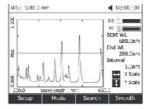
Multi-Wavelength:

Up to 10 wavelengths may be entered, allowing the measurement of multiple wavelengths on a series of samples.



Wavelength Scan:

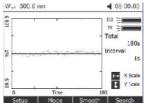
The Wavelength Scan intervals are 0.1, 0.2, 0.5, 1, 2, 5 nm, and High, Medium and Low scan speeds are available. Scan speeds vary from 100 to 2000 nm/min. Wavelengths are scanned from high to low so that the instrument stands by at high wavelength. This minimizes the degradation of UV-sensitive samples. Precise control of filter and lamp changes means that their effects are not seen on the final scan. Post-run manipulation includes re-scaling axes, curve tracking and peak picking.



Kinetics:

This mode may be used for scanning time courses or reacting rate calculations. Abs. vs. time graphs displayed on the screen in real time.

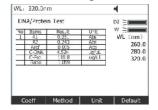
Wait time and measurement time up to 12 hours may be entered with time intervals of 0.5, 1, 2, 5, 10, 30 seconds and 1 min. Post-run manipulation includes re-scaling, curve tracking and selection of the part of the curve required for the rate calculation. Rate is calculated using a linear regression algorithm before multiplying by the entered factor.



DNA/Protein Test:

Concentration and DNA purity are calculated by Absorbance ratios 260 nm/280 nm or 260 nm/230 nm with optional subtracted absorbance at 320 nm.

DNA Concentration = 62.9A260 - 36.0A280 or 49.1A260 - 3.48A230 Protein Concentration = 1552A260 - 757.3A280 or 183A220 - 75.8A230 Other wavelengths and factors may be entered.



UV Analyst PC-Control Software:

The PC application software offers: Photometric Mode Quantitative test (Standard curve) Wavelength Scan Kinetics DNA/Protein

Multi-Wavelength

System Utility

The PC application software UV-Vis Analyst takes the best features of the stand-alone version plus more powerful data processing, expanded data collecting, and storage capability. It comes standard with UV3/6 series PC models and is optional to stand-alone models.

Quantitative Test (Standard curve):

Use up to 20 standards to establish a standard curve. Four methods for fitting a curve:

Linear fit.

Linear through zero.

Square fit.

Cubic fit.



Multi-wavelength:

Up to 20 wavelengths can be selected and multiple samples can be measured. (Auto cell changer is required to run multiple samples automatically)



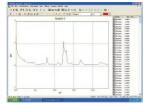
Wavelength Scan:

Automatically record peaks and valleys. The quantity of channels is unlimited; you can simultaneously store as many as desired. Post-run manipulation and processing includes:

Re-scaling axes, curve.

1 to 4 derivatives.

Smoothing, combination, zooming, overlap.



Kinetics (Abs. VS Time):

The Kinetics mode may be used for scanning time courses or reacting rate calculations. Abs. VS Time graphs are displayed on the screen in real time. Wait time, measurement time and time intervals may be entered.

Post-run manipulation includes re-scaling, curve tracking and selection of the part of the curve required for the rate calculation. Rate is calculated using a linear regression algorithm before multiplying by the entered factor.





Biolab Scientific Ltd.